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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,030	08/12/2004	Norbert E. Fusenig	0471-0286PUS1	3120
2292 7590 04/01/2008 BIRCH STEWART KOLASCH & BIRCH			EXAMINER	
PO BOX 747			HENRY, MICHAEL C	
FALLS CHURG	FALLS CHURCH, VA 22040-0747		ART UNIT	PAPER NUMBER
			1623	
			NOTIFICATION DATE	DELIVERY MODE
			04/01/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	10/501,030	FUSENIG ET AL.
Office Action Summary	Examiner	Art Unit
	MICHAEL C. HENRY	1623
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 26 s This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allowated closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 18-28 and 30 is/are pending in the a 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 18-28 and 30 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the edrawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

DETAILED ACTION

The following office action is a responsive to the Amendment filed, 09/26/07. The amendment filed 09/26/07 affects the application, 10/501,030 as follows:

- 1. Claims 11-17 and 29 have been canceled. Upon further consideration it was determined that the indicated allowable subject matter of the prior office mailed 06/26/07 action was not appropriate. Consequently, this allowable subject matter is withdrawn and a new ground(s) of rejection is made herein.
- 2. The responsive to applicants' amendments and arguments is contained herein below.

Claims 18-28 and 30 are pending in the application

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 18-28 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Willoughby et al. (WO 94/23725) in view of Pressato et al. (WO 97/07833).

In claim 18 applicant claims "A method for the treatment and care of primary and secondary tumors by inhibiting angiogenesis which comprises applying at the tumor site a biomaterial comprised of a benzyl ester of hyaluronic acid wherein said hyaluronic acid is at least 85% benzyl esterified, and wherein said biomaterial inhibits angiogenic processes related to vascularization." Claims 18-28 and 30 are drawn to said method

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wherein said hyaluronic acid is benzyl esterified at specific %, wherein the hyaluronic acid is in association with other natural, synthetic and/or semisynthetic biopolymers, pharmacologically active substance, specific pharmacological active substance, specific forms of the biomaterial and specific form of application to tumor site.

Willoughby et al. disclose the use of hyaluronic acid, including hyaluronic acid esters for the treatment of tumors by inhibiting or regressing angiogenesis (see claims 48-47; see also claims 24-34). Furthermore, Willoughby et al. disclose that their invention provides a process for the inhibition, control and/or regression of angiogenesis, (for example the inhibition of blood vessel growth to a malignant tumour, cutting off blood vessel growth or development, in to a malignant tumour) in a mammal (for example a human), the process comprising the steps of administering an effective dosage amount of a pharmaceutical composition for the inhibition, control and/or regression of angiogenesis to a site on/in the mammal in need of inhibition, control and/or regression (see page 7, lines 6-32; see also page 6, lines 13-21). In addition, Willoughby et al. disclose that

The difference between applicant's claimed method and the method disclosed by Willoughby et al. is that Willoughby et al. do not recite the use of a specific ester (i.e., benzyl ester) of hyaluronic acid but teach that esters of hyaluronic acid can be used.

Pressato et al. disclose a biomaterial comprised of benzyl ester of hyaluronic acid in the form of gels, membranes, woven tissues or meshes and nonwoven tissues that can be used to prevent surgical adhesion (page 5, lines 20-26). This suggests that benzyl ester of hyaluronic acid can be in the form of gels, membranes, woven tissues or meshes

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and nonwoven tissues (of a biomaterial) that can be administered directly to the treated site (page 5, lines 20-26). Furthermore, Pressato et al. disclose that their benzyl ester of hyaluronic acid can be 75-100% esterified (see claim 1). In addition, Pressato et al. disclose that biodegradable and non-biodegradable materials such as polymers in their composition.

It would have been obvious to one having ordinary skill in the art, at the time the claimed invention was made, in view of Willoughby et al. and Pressato et al., to have used the method of Willoughby et al. to treat tumors by inhibiting angiogenesis with a composition (e.g., a biomaterial) comprising a benzyl ester of hyaluronic acid, since Willoughby et al. suggests that esters of hyaluronic acid can be used by application to the tumor site and Pressato et al. disclose that benzyl ester of hyaluronic acid can be prepared in the form of gels, membranes, woven tissues or meshes and nonwoven tissues (of a biomaterial) that can be administered directly to a treated site.

One having ordinary skill in the art would have been motivated in view of Willoughby et al. and Pressato et al., to have used the method of Willoughby et al. to treat tumors by inhibiting angiogenesis with a composition (e.g., a biomaterial) comprising a benzyl ester of hyaluronic acid, since Willoughby et al. suggests that esters of hyaluronic acid can be used by application to the tumor site and Pressato et al. disclose that benzyl ester of hyaluronic acid can be prepared in the form of gels, membranes, woven tissues or meshes and nonwoven tissues (of a biomaterial) that can be administered directly to a treated site. It should be noted that it is obvious to further include or use pharmaceutically active substance such as antitumor or cancer drugs to treat said tumors.

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Response to Arguments

Applicant's arguments with respect to claims 18-28 and 30 have been considered

but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael C. Henry whose telephone number is 571-272-

0652. The examiner can normally be reached on 8.30am-5pm; Mon-Fri. If attempts to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia A.

Jiang can be reached on 571-272-0627. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Michael C. Henry

March 20, 2008.

/Shaojia Anna Jiang, Ph.D./

Supervisory Patent Examiner, Art Unit 1623